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Re-evaluation Note REV2017-13

Special Review Decision: Diazinon -Subsection 17(2) of Pest Control Products Act

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Special Review Decision

Pursuant to subsection 17(2) of the *Pest Control Products Act*, the Pest Management Regulatory Agency (PMRA) has conducted a special review of pest control products containing diazinon based on the European Commission decision to prohibit all uses of this active ingredient due to concerns relating to human health and the environment (European Commission, 2007). The proposed special review decision was published for consultation in the Re-evaluation Note REV2016-19, *Special Review of Diazinon-Subsection 17(2) of Pest Control Products Act: Proposed Decision for Consultation* and it outlines the Agency's proposed decision and the reasons for it.

No comments were received during the consultation process. The PMRA, under the authority of the *Pest Control Products Act*, is confirming the current registration of pest control products containing diazinon in Canada. Mitigation measures to reduce risk as proposed in REV2016-19 are required (Appendix I).

Regulatory Directive DIR2014-01, *Approach to Special Reviews*, presents the details of the PMRA's special review approach.

To comply with this decision, the required label changes must be implemented on all product labels sold by registrants no later than 24 months after the publication date of this document. Registrants of the products containing diazinon will be informed of the specific requirements affecting their product registration(s) and of the regulatory options available to them.

Other Information

Any person may file a notice of objection[1] regarding this decision on diazinon within 60 days from the date of publication of this special review decision. For more information regarding the basis for objecting (which must be based on scientific grounds), please refer to the Pesticides and Pest Management portion of Health Canada's website, Request a Reconsideration of Decision, or contact the PMRA's Pest Management Information Service.

[1] As per subsection 35(1) of the Pest Control Products Act.

Appendix I Label Amendments for Products Containing Diazinon

The following uses must be removed from product labels:

Control of adult root maggots in rutabaga and turnip

PRECAUTIONS

The following statements are required for emulsifiable concentrates:

"Mixers/loaders must use a closed mechanical transfer loading system for liquid products. DO NOT handle more than 28 kg active ingredient per person in a day. Mixers/loaders must wear chemical-resistant coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant footwear. Applicators using groundboom equipment with a closed cab must wear coveralls over a long-sleeved shirt and long pants, socks and shoes. Wear chemical-resistant gloves when leaving the cab for cleanup and repair.

Open mixing/loading of emulsifiable concentrate product is prohibited."

DIRECTIONS FOR USE

The following statements are required:

"Use on onion is limited for control of onion maggot larvae only and application in furrow at the planting or sowing time. DO NOT apply more than one application per year.

Uses on blackberry, loganberry and raspberry are limited for control of raspberry crown borer only and application at the time when new canes reach 10 cm height. DO NOT apply more than one application per year.

Uses on rutabaga and turnip are limited for control of root maggot larvae only and application at the seedling stage. DO NOT apply more than two applications per year."

RESTRICTED-ENTRY INTERVAL

The appropriate end-use product labels must include the following statement:

> "DO NOT enter or allow worker re-entry into treated areas during the restricted entry intervals to conduct activities listed in the following Table."

Crop	Activity	Restricted-entry Interval
Onion	All activities	12 hours
Blackberry, loganberry and raspberry	Al activities	12 hours
Rutabaga and turnip	Non-foliar contact scouting	12 hours
	Foliar contact scouting	25 days
	Thinning and hand weeding	15 days
	Handset irrigation	45 days
	All other activities	12 hours

References

Published Information

PMRA Document Number	Reference
2676922	Agriculture and Agri-Food Canada, 2007. Crop Profile for Raspberry in Canada, 2007. http://publications.gc.ca/collections/collection_2009/agr/A118-10-18-2007E.pdf (Last accessed on 2016-01-11)
2676921	Agriculture and Agri-Food Canada, 2012. Crop Profile for Allium Vegetables in Canada, 2012(a). http://publications.gc.ca/collections/collection_2014/aac-aafc/A118-10-34-2014-eng.pdf (Last accessed on 2016-01-11)
2676920	Agriculture and Agri-Food Canada, 2012. Crop Profile for Rutabaga in Canada, 2012(b). http://publications.gc.ca/collections/collection_2014/aac-aafc/A118-10-23-2014-eng.pdf (Last accessed on 2016-01-11)
2676923	European Commission, 2007. Commission Decision of 6 June 2007 concerning the non-inclusion of diazinon in Annex I to Council Directive 91/414/EEC and the withdrawal of authorisations for plant protection products containing this substance. Official Journal of the European Union, 9.6.2007 (2007/393/EC)
1052807	Canada, Pest Management Regulatory Agency. 2005. Re-evaluation Note REV2005-06: Preliminary Risk and Value Assessments of Diazinon REV2005-06.
1821390	Canada, Pest Management Regulatory Agency. 2009. Re-evaluation Decision Document RVD2009-18: Diazinon.
2405939	Canada, Pest Management Regulatory Agency. 2013(a). Re-evaluation Note REV2013-06: Special Review Initiation of 23 Active Ingredients.
2190619	ElMazoudy, R.H., Attia, A.A., and AbdElGawad, H.S. 2011. Evaluation of Developmental Toxicity Induced by Anticholinesterase Insecticide, Diazinon in Female Rats. Birth Defects Research (Part B), 92: 534-542. DACO 4.8.
2190620	Neishabouri, E.Z., Hassan, Z.M., Azizi, E., and Ostad, S.N. 2004. Evaluation of Immunotoxicity Induced by Diazinon in C57bl/6 mice. Toxicology 196: 173-179. DACO 4.8.
2190622	ElMazoudy, R.H. and Attia, A.A. 2012. Endocrine-disrupting and Cytotoxic Potential of Anticholinesterase Insecticide, Diazinon in Reproductive Toxicity of Male Mice. Journal of Hazardous Materials, 209-210: 111-120. DACO 4.8.

Unpublished Information

PMRA Document Number	Reference
2071811	Diazinon: Gestation Day 20 Cholinesterase Determinations in a Dietary Range-finding Developmental Neurotoxicity Study in Rats. Huntingdon Life Sciences, East Millstone, New Jersey. Laboratory report number: 01-4531. Study report date: November 13th, 2002. DACO 4.5.14.
2071813	Diazinon: A Dietary Range-finding Developmental Neurotoxicity Study in Rats.

PMRA Document Number	Reference
2071818	Huntingdon Life Sciences, East Millstone, New Jersey. Laboratory report number: 01-4530, Study report date: November 13th, 2002. DACO 4.5.14.
2071816 2071817	Diazinon: A Developmental Neurotoxicity Study in Rats. Huntingdon Life Sciences, East Millstone, New Jersey. Laboratory study number: 01-4532. Study report date: November 17th, 2003. DACO 4.5.14.
2121388	United States Environmental Protection Agency, Data Evaluation Record - Diazinon, Review of the Developmental Neurotoxicity Study, Office of Prevention, Pesticide and Toxic Substances, Washington, District of Columbia, July 19th, 2005, MRID No. 46195601. DACO 4.5.14.
2121389	United States Environmental Protection Agency, Data Evaluation Record - Diazinon, Revised Executive Summary for the Developmental Neurotoxicity Study, Office of Prevention, Pesticide and Toxic Substances, Washington, District of Columbia, April 16th, 2008. MRID No. 46195601. DACO 4.5.14.
2147343	Relative Sensitivity of Neonatal/Juvenile and Young Adult CD Rats After an Acute Exposure to Diazinon. Center for Life Sciences and Toxicology, RTI International, Research Triangle Park, North Carolina, Laboratory project number: 08882.4. Study report date: December 23rd, 2003. DACO 4.5.14.
2147346	Comparative Sensitivity of Neonatal/Juvenile and Young Adult CD Rats After Repeated Exposure to Diazinon. Center for Life Sciences and Toxicology, RTI International, Research Triangle Park, North Carolina. Laboratory project number: 08882.005. Study report date: December 23rd, 2003. DACO 4.5.14.